REMARKS

Claims 1, 2, 4-7, 9-13, 15-16, 19-20 and 22 are pending in this application. By this Amendment, claims 1, 10 and 16 are amended and claims 8 and 17 are canceled without prejudice or disclaimer. Various amendments are made for clarity and are unrelated to issues of patentability.

Entry of the amendments is proper under 37 C.F.R. §1.116 because the amendments: (1) place the application in condition for allowance; (2) do not raise any new issues requiring further search and/or consideration; and/or (3) place the application in better form for appeal, should an appeal be necessary. More specifically, independent claim 1 is amended to include features of dependent claims 8 and 17 and independent claim 16 is amended to include features of dependent claim 17. The other amendments are merely for clarity of previously claimed subject matter. Entry is thus proper under 37 C.F.R. §1.116.

The Office Action rejects claims 1-2 and 4-9 under 35 U.S.C. §103(a) over U.S. Patent Publication 2002/0168976 to Krishnan in view of U.S. Patent 5,734,980 to Hooper et al. (hereafter Hooper) and U.S. Patent Publication 2005/0153696 to Chao et al. (hereafter Chao). The Office Action also rejects claims 10-13 and 15 under 35 U.S.C. §103(a) over to Krishnan in view of Hooper and Chao. Still further, the Office Action rejects claims 16-17, 19 and 22 under 35 U.S.C. §103(a) over to Krishnan in view of Hooper and Chao. The rejections are respectfully traversed with respect to the pending claims.

Independent claim 1 recites receiving system information from a Radio Resource Control of a UMTS Terrestrial Radio Access Network, wherein the received system information

comprises frequency information of service vendors. Independent claim 1 also recites obtaining

a frequency of each service vendor from the received system information, each of the obtained

frequencies corresponding to a frequency band of use for respective service vendors. Still

further, independent claim 1 recites performing a cell search about the obtained frequency of

one service vendor based on the obtained frequency of the one service vendor, and performing a

cell search about a specific frequency band when a requested frequency is not found when

performing the cell search about the obtained frequency of the one service vendor.

The applied references do not teach or suggest at least these features of independent

claim 1. More specifically, the applied references do not teach or suggest performing a cell search

about the obtained frequency of one service vendor based on the obtained frequency of the one

service vendor in combination with performing a cell search about a specific frequency band

when a requested frequency is not found.

The Office Action (on page 3) states that Krishnan does not disclose the claimed

performing a cell search about the obtained frequency. The Office Action then relies on

Hooper's FIG. 2, steps 70-74 as teaching these missing features. However, Hooper specifically

teaches that if the mobile terminal 60 fails to detect a transmission, then the method proceeds to

step 96 where a next frequency (of a list 64) is scanned. In other words, Hooper specifically

teaches that a next frequency in the list 64 is subsequently scanned. See Hooper's col. 7, lines 61-

64 and 22-30. In summary, Hooper does not teach or suggest performing a cell search about a

specific frequency band when a requested frequency is not found. Rather, Hooper clearly teaches

that another frequency is searched if the mobile terminal fails to detect a transmission.

Additionally, when discussing previous dependent clam 8, the Office Action (on page 5)

states that Krishnan teaches that channels are searched until a preferred system connection is

made and that if no system connection is made (i.e., a frequency/channel is not found), then

"another cell search" takes place until a preferred system connection is made. However, this

does not suggest performing a cell search about a specific frequency band when a requested

frequency is not found. The Office Action (on page 5) appears to state that Krishnan merely

performs another system connection. This does not teach or suggest the missing features of

performing a cell search about a specific frequency band. Krishnan merely relates to tuning to a

specific block or channel number. See paragraph [0028] and channels 220 in roaming list 202 of

FIG. 3. The roaming list 202 does not include and specific frequency band information.

Krishnan has no teaching or suggestion for performing a cell search about a specific frequency

band (when a requested frequency is not found).

Still further, the applied references do not teach or suggest receiving system information

from a Radio Resource Control of a UMTS Terrestrial Radio Access Network, wherein the

received system information comprises frequency information of service vendors. That is, the

Office Action (on page 3) cites Chao's paragraphs [0013]-[0016] and [0020] as disclosing

broadcast control system information is received from a UTRAN. However, applicant

respectfully submits that the cited paragraphs do not teach or suggest any type of frequency

information of service vendors. Furthermore, the cited paragraphs do not specifically disclose

"broadcast control channel system information" as alleged in the Office Action. Absent some

showing in the prior art, there is no teaching of receiving the system information (i.e., frequency information of service vendors) from a RRC of a UMTS network.

For at least the reasons set forth above, Krishnan, Hooper and Chao do not teach or suggest all the features of independent claim 1. Thus, independent claim 1 defines patentable subject matter.

Independent claim 10 recites receiving frequency data of a plurality of service vendors from a Radio Resource Control of a UMTS Terrestrial Radio Access Network, the received frequency data relating to frequency bands of use for each of the service vendors. Independent claim 10 also recites storing the received frequency data in user equipment, performing a cell search about a stored frequency of at least one service vendor in a frequency search, and performing another cell search about a specific frequency band when a frequency is not found in the stored frequency of the at least one service vendor.

For at least similar reasons as set forth above, the applied references do not teach or suggest at least these features of independent claim 10. More specifically, Chao (and the other applied references) does not teach or suggest receiving frequency data of a plurality of service vendors from a Radio Resource Control of a UMTS Terrestrial Radio Access Network, the received frequency data relating to frequency bands of use for each of the service vendors. Still further, Krishnan (and the other applied references) does not teach or suggest performing another cell search about a specific frequency band when a frequency is not found in the stored frequency of the at least one service vendor. Thus, independent claim 10 defines patentable subject matter.

Independent claim 16 recites a receiving device to receive system information from a Radio Resource Control of a UMTS Terrestrial Radio Access Network, wherein <u>the received system information comprises frequency information of service vendors</u>. Independent claim 16 also recites a memory to store frequency information regarding service vendors, and a processing device to obtain a frequency of a particular service vendor from the memory, wherein the processing device performs a cell search about the obtained frequency when searching the frequency information stored in the memory, the cell search being based on the received system information. Independent claim 16 additionally recites the processing device further <u>performing another cell search about a specific frequency band</u> when a frequency is not found during the cell search about the stored frequency information for the particular service vendor.

For at least similar reasons as set forth above, the applied references do not teach or suggest at least these features of independent claim 16. More specifically, Chao (and the other applied references) do not teach or suggest to receive system information from a Radio Resource Control of a UMTS Terrestrial Radio Access Network, wherein the received system information comprises frequency information of service vendors. Still further, Krishnan (and the other applied references) do not teach or suggest performing another cell search about a specific frequency band when a frequency is not found during the cell search. Thus, independent claim 16 defines patentable subject matter.

For at least the reasons set forth above, each of independent claims 1, 10 and 16 defines patentable subject matter. Each of the dependent claims depends from one of the independent claims and therefore defines patentable subject matter at least for this reason. In addition, the
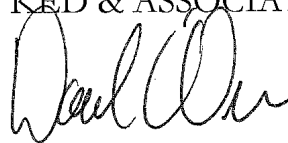
dependent claims recite features that further and independently distinguish over the applied

references.

CONCLUSION

In view of the foregoing, it is respectfully submitted that the application is in condition

for allowance. Favorable consideration and prompt allowance of claims 1, 2, 4-7, 9-13, 15-16,

19-20 and 22 are earnestly solicited. If the Examiner believes that any additional changes would

place the application in better condition for allowance, the Examiner is invited to contact the

undersigned attorney at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is

hereby made. Please charge any shortage in fees due in connection with the filing of this,

concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and

please credit any excess fees to such deposit account.

Respectfully submitted,
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